

KVK Slim 500

Centrifugal circular duct fan

Item number: 92148

Variant: 230V 1~ 50Hz



- Slim design, easy to install
- Easy maintenance, service cover
- Low sound level, insulated cover
- High efficiency and low SFP in a real working point
- Speed-controllable
- Simple to install, mounting brackets included
- Integrated thermal contacts
- Aluzinc casing, C4 corrosion class

KVK Slim is a box fan with circular duct connections. The lid is insulated to keep a low sound level. The fan can be installed in any position. The casing is manufactured from Aluzinc in corrosion class C4.

KVK Slim can be demand controlled via sensors and controllers for CO₂, temperature, humidity, presence indication and VAV or manually speed controlled via a stepless thyristor or a 5-step transformer. To protect the motor from overheating, the fans have integral thermal contacts with leads for connection to a motor protection device.

The FK mounting clamp (accessory) facilitates easy installation and removal, and prevents the transfer of vibration to the duct.



Technical parameters

Norminal data	
Voltage (nominal)	230 V
Frequency	50 Hz
Phase(s)	1~
Input power	747 W
Input current	3.29 A
Impeller speed	1,367 r.p.m.
Air flow	max ; 5,461; m ³ /h
Capacitance of capacitor	16 μF
Temperature of transported air	max 70 °C
Max temperature of transported air, when speed controlled	70 °C
Sound data	
Sound pressure level at 3m (20m ² Sabin)	61 dB(A)
Protection/Classification	
Enclosure class, motor	IP54
Insulation class	F

Data according to ErP

ErP ready

ErP 2018

Dimensions and weights

Duct dimension; Circular, inlet

500 mm

Duct dimension; Circular, outlet

500 mm

Weight

57.1 kg

Others

Duct connection type

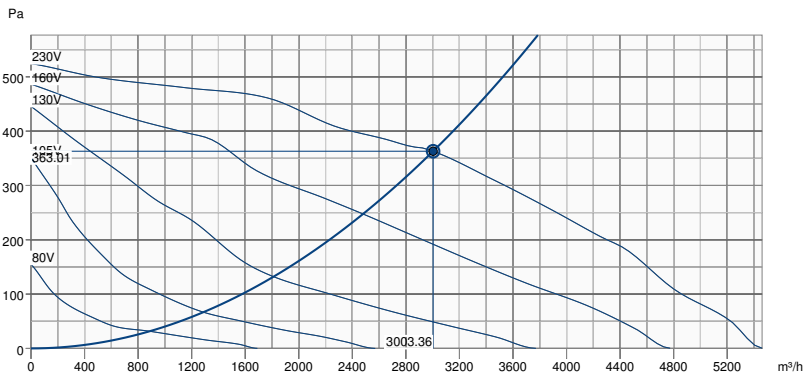
Circular

Motor type

AC

Performance

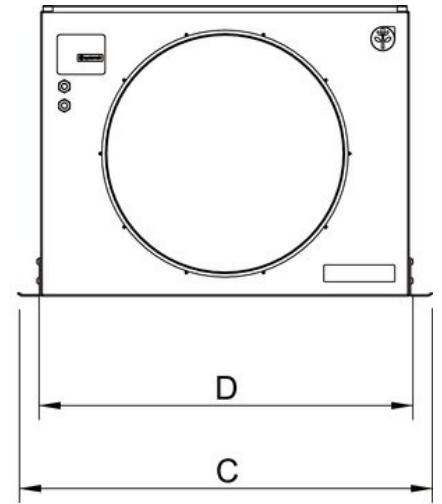
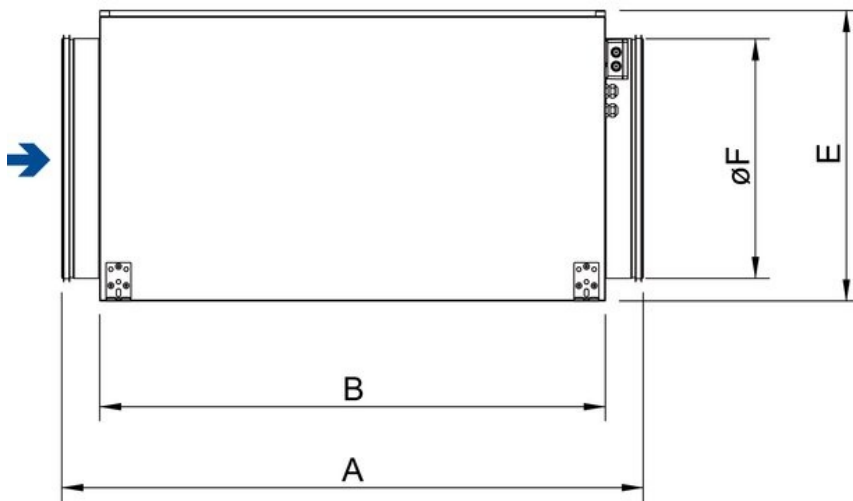
Performance curve



Hydraulic data	
Required air flow	3003 m³/h
Required static pressure	363 Pa
Working air flow	3003 m³/h
Working static pressure	363 Pa
Air density	1.204 kg/m³
Power	728.8 W
Fan control - RPM	1374 rpm
Current	3.19 A
SFP	0.874 kW/m³/s
Control voltage	230.0 V
Supply voltage	230 V

Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	58	75	71	67	67	66	61	52	78
Outlet	dB(A)	58	72	68	68	71	66	59	51	77
Surrounding	dB(A)	42	60	61	58	59	62	55	51	68
Sound pressure level at 3m (20m² Sabine)	dB(A)	-	-	-	-	-	-	-	-	61
Sound pressure level at 3m free field	dB(A)	-	-	-	-	-	-	-	-	47

Dimension



KVK SLIM	A	B	C	D	E	øF
500	1213	1055	873	768	605	500

Wiring

YE Yellow

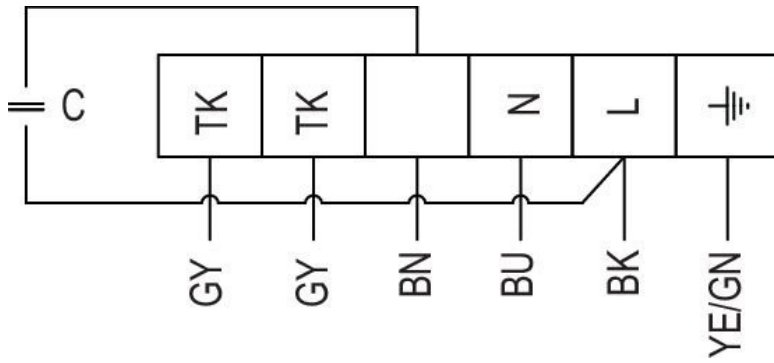
BU Blue

GN Green

BN Brown

BK Black

GY Grey



Ecodesign

Product	
Trade name	Systemair
Product name	KVK Slim 500
Ecodesign	
ErP compliance	2018
Unit category	NRVU
Drive	External MSD or VSD
Unit type	UVU
Heat recovery type	None
Temperature ratio (UVU)	Not applicable
qv nom	0.834 m ³ /s
P nom	0.729 kW
Ps nom	363 Pa
Fan efficiency	41.5 %
External Leakage	1.4 %
Sound power level LWA	60 dB(A)

Accessories

- FRQ5S-E-6A (37421)
- REE 4 Speed control (5317)
- RETP 6 Temp/Pressure regulator (32293)
- REV-3POL/03 ON/OFF (33978)
- RTRE 5 Speed control (5010)
- S-ET 10E Motor Protection (161205)
- SG 500 Protection guard (5615)
- DTV500A (96807)
- HR1 Room Humidistat (215150)
- Presence detector/IR24-P (6995)
- Safety switch 2-pole grey (210679)
- FK 500 Fast clamp (1617)
- RE 5 Speed control (5002)
- REPT 6 Digital regulator (5698)
- REU 5 Speed control (5006)
- RSK-500 Back draft damper (73049)
- S-ET 10 Motor Protection (161199)
- S-ET 10E Motor Protection (5155)
- CO2RT-R-D Transmitter (6993)
- FRQS-E-6A (37419)
- MicroREX D21 Plus Time Switch (17822)
- RT 0-30 Room Thermostat (5151)
- T 120 Timer (5165)
- VBC 500-2 Water heating batt (9837)

Documents

- KVK_SILENT_SLIM_OPERATING_MAINTENANCE_145899_CE_EN_A007.PDF